

M1250-T250L-0.45

Acousto-Optic Modulator



0521

APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

RF Drive Electronics

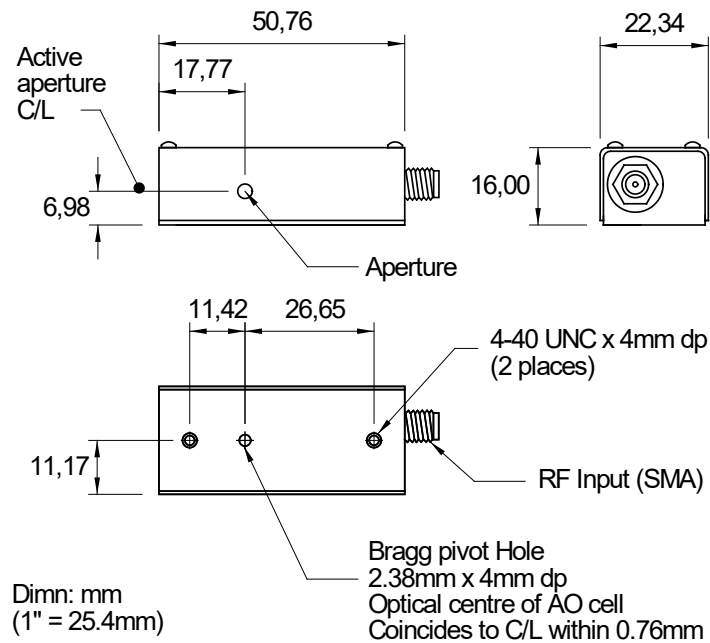
Dual modulation

556F-L / -2

Tuneable with modulation

630C-250, IMS2-HF plus AF0-250T-3

OUTLINE DRAWING



Option -M, metric mounting threads, M3

Note: Mount device to heat conducting surface

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

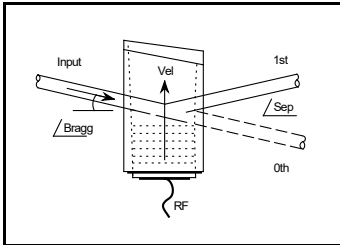
ISOMET CORP, 10342, Battleview Parkway, VA 20109, USA.

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Quality Assured.

In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



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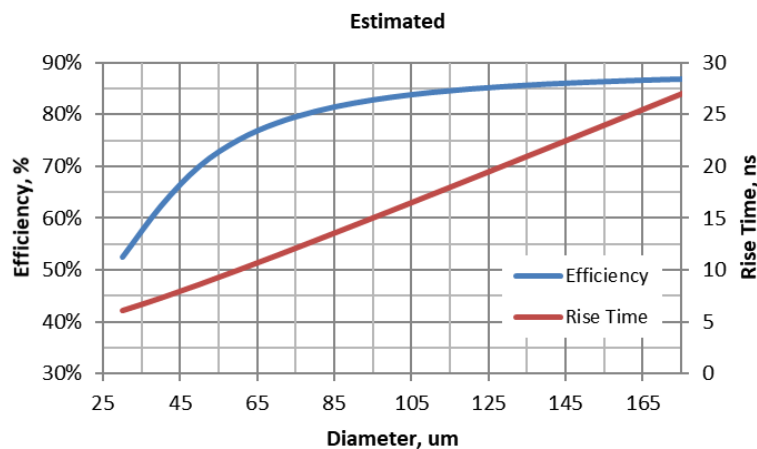
SPECIFICATIONS

Spectral Range:	0.36 > 1.5 μ m
Standard A/R Wavelengths:	360-420nm, 442-488nm, 488-633nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Input polarization:	Vertical preferred
Acoustic Velocity:	4.2mm/ μ s
Active Aperture:	0.45mm
Centre Frequency (CF):	250MHz (or 260MHz)
RF Bandwidth:	100MHz
Input Impedance:	50 Ω nominal
VSWR:	<1.5:1 @ 250MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	360	405	488	532	633
RF Drive Power(W):	<0.4	<0.5	<0.7	<0.7	<1.0
Bragg angle, 250MHz (mrad):	10.7	12.1	14.5	15.8	18.8
Beam Separation, 250MHz, (mrad):	21.4	24.1	29.1	31.7	37.7
Static Insertion Loss (%):	<5	<5	<3	<3	<3

PERFORMANCE vs. BEAM DIAMETER at 488nm



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